

PATENT APPLICATION: US/10/081,218

DATE: 03/12/2002 TIME: 09:57:00

Input Set : N:\Crf3\RULE60\10081218.raw Output Set: N:\CRF3\03122002\J081218.raw

			000put 500. N. (CRIS (05122002 (0001210.10W
			SEQUENCE LISTING RAL INFORMATION:
	3	(1) GENE	RAL INFORMATION:
	5		APPLICANT: SHIBAYAMA, SHIRO
	6	` '	HIRANO, ATSUSHI
	7		OHNO, HIROYUKI
	9	(ii)	TITLE OF INVENTION: A NOVEL POLYPEPTIDE AND DNAS ENCODING IT
	11		NUMBER OF SEQUENCES: 6
	13		CORRESPONDENCE ADDRESS:
	14	, ,	(A) ADDRESSEE: SUGHRUE, MION, ZINN, MACPEAK & SEAS
	15		
	16		(B) STREET: 2100 Pennsylvania Avenue, N.W.  (C) CITY: Washington  (D) STATE: D.C.  (E) COUNTRY: U.S.A.  (F) ZIP: 20037-3202  COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: Patentin Release #1.0, Version #1.30
	17		(D) STATE: D.C.
	18		(E) COUNTRY: U.S.A.
	19		(F) ZIP: 20037-3202 APD .
	21	(V)	COMPUTER READABLE FORM:
	22	` '	(A) MEDIUM TYPE: Floppy disk
	23		(B) COMPUTER: IBM PC compatible
	24		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
	25		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
	27	(vi)	CURRENT APPLICATION DATA:
C>	28	, ,	(A) APPLICATION NUMBER: US/10/081,218
C>			(B) FILING DATE: 25-Feb-2002
	30		(C) CLASSIFICATION:
	32	(vii)	PRIOR APPLICATION DATA:
	33	, ,	(A) APPLICATION NUMBER: US/09/246,355
	34		(B) FILING DATE:
	36		(A) APPLICATION NUMBER: US/08/852,811
	37		(B) FILING DATE: 07-MAY-1997
	39		(A) APPLICATION NUMBER: 08/439,457
	40		(B) FILING DATE:
	42		(A) APPLICATION NUMBER: JP 123155/1994
	43		(B) FILING DATE: 12-MAY-1994
	45	(ix)	TELECOMMUNICATION INFORMATION:
	46		(A) TELEPHONE: (202)293-7060
	47		(B) TELEFAX: (202)293-7860
	48		(C) TELEX: 6491103
	51 (	(2) INFOR	RMATION FOR SEQ ID NO: 1:
	53	_	SEQUENCE CHARACTERISTICS:
	54		(A) LENGTH: 205 amino acids
	55		(B) TYPE: amino acid
	56		(D) TOPOLOGY: linear
	58	(ii)	MOLECULE TYPE: protein
	63	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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		Gly	Thr	Ala	Gly	Ala	Met	Gln	Leu	Cys	Trp	Val	Ile	Leu	Gly	Phe	
	-24	_	_		-20					-15					-10		
	Leu	Leu	Phe			His	Asn	Ser		Pro	Thr	Met		Gln	Thr	Ser	
69 71	Cox.	Con	<b>01</b> -	-5		*	a1	<b>a1</b>	1	_	_	_,	_, 5			_	
71 72	ser	Ser 10	GIN	GTĀ	GIY	Leu		GTĀ	Leu	Ser	Leu		Thr	Glu	Pro	Val	
	Car		) an	D~c	C1	m	15	Dma	O	<b>a</b>	<b>01</b>	20		_	_	_	
	25	261	WOII	PLO	GTĀ	30	тте	PLO	ser	ser		Ата	Asn	Arg	Pro		
		Len	Ser	Ser	Thr		Thr	Dro	Clv	λla	35	Wa 1	Dro	Com	Ser	40	
78		1.Cu	ber	361	45	GIY	1111	FIO	СТУ	50	сту	vai	PIO	ser	ser 55	GTÀ	
	Ara	Asp	Glv	Glv		Ser	Δra	Δan	Thr		Gln	Thr	₩ 1	Dro	Pro	Nan	
81	,	F	0_1	60		001	**** 9	pp	65	rne	GIII	1111	Val	70	PIO	ASII	
	Ser	Thr	Thr		Ser	Leu	Ser	Met		Glu	Asp	Δla	Thr		Leu	Dro	
84			75				202	80		014	···op	*****	85	110	пец	FIO	
86 5	Ser	Pro		Ser	Glu	Thr	Val		Thr	Va l	Ala	Ala		Glv	Val	Tle	
87		90					95					100		<b>-</b> 1	• • • •	140	
89 9	Ser	Phe	Ile	Val	Ile	Leu	Val	Val	Val	Val	Ile		Leu	Va l	Gly	Val	
90						110					115			,	0.1	120	
92 1	Val	Ser	Leu	Arg	Phe	Lys	Cys	Arg	Lys	Ser		Glu	Ser	Glu	Asp		
93					125	_	-	_	-	130	•				135		
95 (	Gln	Lys	Pro	Gly	Ser	Ser	Gly	Leu	Ser	Glu	Ser	Cys	Ser	Thr	Ala	Asn	
96				140					145					150			
98 (	Gly	Glu	Lys	Asp	Ser	Ile	Thr	Leu	Ile	Ser	Met	Lys	Asn	Ile	Asn	Met	
99			155					160					165				
101	Asn			Lys	Glr	Ser			Ala	Glu	ı Lys	: Val	Leu	t			
102		170					175		_			180	•				
	(2)		ORMA														
106		(1	) SE														
107 108									pair	S							
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112		/ii							mRN	7							
117									SEQ		n . 2						
	ATG												ሬሮሞሞ	ССТ	ርርሞር	TTCCGA	60
121	GGC	CACA	ACT	CCCA	GCCC	AC A	ATGA	CCCA	G AC	CTCT	AGCT	CTC	AGGG	AGG	CCTG	GGCGGT	120
123	CTA	AGTC	TGA	CCAC	AGAG	CC A	GTTT	CTTC	C AA	CCCA	GGAT	ACA	TCCC	TTC	CTCA	GAGGCT	180
125	AAC	AGGC	CAA	GCCA	TCTG	TC C	AGCA	CTGG	T AC	CCCA	GGCG	CAG	GTGT	CCC	CAGC	AGTGGA	240
127	AGA	GACG	GAG (	GCAC.	AAGC	AG A	GACA	CATT	T CA	AACT	GTTC	CCC	CCAA	TTC	AACC	ACCATG	300
129	AGC	CTGA	GCA '	TGAG	GGAA	GA T	GCGA	CCAT	C CT	GCCC	AGCC	CCA	CGTC	AGA	GACT	GTGCTC	360
131	ACT	GTGG	CTG	CATT'	TGGT	GT T	ATCA	GCTT	C AT	TGTC	ATCC	TGG'	TGGT	TGT	GGTG.	ATCATC	420
133	CTA	GTTG	GTG '	TGGT	CAGC	CT G	AGGT	TCAA	G TG	TCGG.	AAGA	GCA	AGGA	GTC	TGAA	GATCCC	480
135	CAG	AAAC	CTG (	GGAG'	TTCA	GG G	CTGT	CTGA	A AG	CTGC	TCCA	CAG	CCAA'	TGG	AGAG.	AAAGAC	540
137	AGC	ATCA	CCC !	TAT	CTCC	AT G	AAGA.	ACAT	C AA	CATG.	AATA	ATG	GCAA	ACA	AAGT	CTCTCA	600
139																	618
141	(2)																
143		(1)	) SE(														
144									pair:	S							
145			( 1	) T	IPE:	nuc.	reic	acio	1								

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146	(v) ====================================	
147	(-)	
149	( )	
154	( ) - Zornor browning to No. 5.	
T20	GCCTGCCCGC CACATACCCA GCTGACATGG GCACCGCAGG AGCCATGCAG CTGTGCTGGG	60
158	TGATCCTGGG CTTCCTCCTG TTCCGAGGCC ACAACTCCCA GCCCACAATG ACCCAGACCT	120
160	CTAGCTCTCA GGGAGGCCTT GGCGGTCTAA GTCTGACCAC AGAGCCAGTT TCTTCCAACC	180
162	CAGGATACAT CCCTTCCTCA GAGGCTAACA GGCCAAGCCA TCTGTCCAGC ACTGGTACCC	240
164	CAGGCGCAGG TGTCCCCAGC AGTGGAAGAG ACGGAGGCAC AAGCAGAGAC ACATTTCAAA	300
166	CTGTTCCCCC CAATTCAACC ACCATGAGCC TGAGCATGAG GGAAGATGCG ACCATCCTGC	360
168	CCAGCCCCAC GTCAGAGACT GTGCTCACTG TGGCTGCATT TGGTGTTATC AGCTTCATTG	420
170	TCATCCTGGT GGTTGTGGTG ATCATCCTAG TTGGTGTGGT CAGCCTGAGG TTCAAGTGTC	480
172	GGAAGAGCAA GGAGTCTGAA GATCCCCAGA AACCTGGGAG TTCAGGGCTG TCTGAAAGCT	540
174	GCTCCACAGC CAATGGAGAG AAAGACAGCA TCACCCTTAT CTCCATGAAG AACATCAACA	600
176	TGAATAATGG CAAACAAAGT CTCTCAGCAG AGAAGGTTCT TTAAAAGCAA CTTTGGGTCC	660
178	CCATGAGTCC AAGGATGATG CAGCTGCCCT GTGACTACAA GGAGGAAGAG ATGGAATTAG	720
180	TAGAGGCAAT GAACCACATG TAAATTATTT TATTGTTTCA TGTCTGCTTC TAGATCTAAA	780
182	GGACACTAGC ATTGCCCCAG ATCTGGGAGC AAGCTACCAA CAGGGGAGAC TCTTTCCTGT	840
184	ATGGACAGCT GCTGTGGAAA TACTGCCTGC TTCTCCCACC TCCTCAGAGC CACAGGAAAG	900
186	AGGAGGTGAC AGAGAGAGA CAAGGAAAGT GATGAGGTGG ATTGATACTT TCTACTTTGC	960
	ATTAAAATTA TTTTCTAGCC TGC	983
190	(2) INFORMATION FOR SEQ ID NO: 4:	
192	(i) SEQUENCE CHARACTERISTICS:	
193	(A) LENGTH: 983 base pairs	
194	(B) TYPE: nucleic acid	
195	(C) STRANDEDNESS: single	
196	(D) TOPOLOGY: linear	
198	(ii) MOLECULE TYPE: cDNA to mRNA	
200	(vi) ORIGINAL SOURCE:	
201	(A) ORGANISM: Homo sapiens	
202	(H) CELL LINE: endothelial cell line of umbilical cord vein	
204	(ix) FEATURE:	
205	(A) NAME/KEY: CDS	
206	(B) LOCATION: 27644	
207	(C) IDENTIFICATION METHOD: by similarity to some other patter	rn
209	(ix) FEATURE:	
210	(A) NAME/KEY: sig_peptide	
211	(B) LOCATION: 2798	
212	(C) IDENTIFICATION METHOD: by similarity with known sequence	or
213 t	to an established consensus	
215	(ix) FEATURE:	
216	(A) NAME/KEY: misc_feature	
217	(B) LOCATION: 381464	
218	(C) IDENTIFICATION METHOD: by similarity with known sequence	or
219 t	to an established consensus	
221	(ix) FEATURE:	
222	(A) NAME/KEY: mat_peptide	
223	(B) LOCATION: 99641	
224	(C) IDENTIFICATION METHOD: by similarity with known sequence	or
	a bequence	

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	225 to an established consensus 227 (ix) FEATURE:																
228		,	•	(A) N		KEY:	mis	sc fe	atur	۰							
229				(B) L	•			_		•							
230	)									: by	sim	ilar	ity	with	kno	own sec	quence or
			estak	olish	ied c	onse	nsus	3					-				
234				EQUEN													
		CTGC	CCGC	CACA	TACC	CA G	CTGA									G CTG	53
	Met Gly Thr Ala Gly Ala Met Gln Leu																
238		1 maa	. ama					- 2				- 2					
240	Lac	· TGC	TUAL	ATC	CTG	GGC	TTC	CTC	CTG	TTC	CGA	GGC	CAC	AAC	TCC	CAG	101
	- 15		, vai	. тте	Leu	-10		ь гел	Leu	Pne			His	Asn	Ser	Gln	
			<b>አ</b> ውጥር	. ACC	CAG			N.C.C	THE CHI	CAC	- 5		- Cmm	000	001	1 CTA	140
245	Pro	Thr	Met	Thr	Gln	Thr	Ser	Ser	Car	Gln	GGA	. GGC	LON	C111	GG1	Leu	149
246				5			001	001	10	OIII	GLY	СТУ	Dea	15	_	Leu	
248	AGI	CTG	ACC	ACA	GAG	CCA	GTT	TCT		AAC	CCA	GGA	ТАС			TCC	197
249	Ser	Leu	Thr	Thr	Glu	Pro	Val	Ser	Ser	Asn	Pro	Glv	Tvr	Ile	Pro	Ser	. 137
250			20					25					30			202	
252	TCA	GAG	GCT	AAC	AGG	CCA	AGC	CAT	CTG	TCC	AGC	ACT	GGT	ACC	CCA	GGC	245
253	Ser	Glu	Ala	Asn	Arg	Pro	Ser	His	Leu	Ser	Ser	Thr	Gly	Thr	Pro	Gly	
254		35	ı				40					45				_	
256	GCA	GGT	GTC	CCC	AGC	AGT	GGA	AGA	GAC	GGA	GGC	ACA	AGC	AGA	GAC	ACA	293
257	Ala	Gly	Val	Pro	Ser		Gly	Arg	Asp	Gly	Gly	Thr	Ser	Arg	Asp	Thr	
258						55					60					65	
260	TTT	CAA	ACT	GTT	CCC	CCC	AAT	TCA	ACC	ACC	ATG	AGC	CTG	AGC	ATG	AGG	341
262	Pile	GIII	Thr	Val	70	Pro	Asn	ser	Thr		Met	Ser	Leu	Ser		Arg	
		СΔТ	GCG	ACC		CTC	CCC	NCC.	CCC	75	maa.	CAC	a am	c.m.c	80	3 CI III	200
265	Glu	Asp	Ala	Thr	Tle	Len	Pro	Ser	Pro	Thr	Sor	GAG	Thr	Un 1	CTC	ACT	389
266		E		85	110	Deu	110	DCI	90	1111	Ser	GIU	1111	95	ьeu	1111	
268	GTG	GCT	GÇA	TTT	GGT	GTT	ATC	AGC		ATT	GTC	ATC	CTG		GTT	GTG	437
269	Val	Ala	Ala	Phe	Gly	Val	Ile	Ser	Phe	Ile	Val	Ile	Leu	Val	Val	Val	437
270			100					105					110				
272	GTG	ATC	ATC	CTA	GTT	GGT	$\operatorname{GTG}$	GTC	AGC	CTG	AGG	TTC	AAG	TGT	CGG	AAG	485
	Val	Ile	Ile	Leu	Val	Gly	Val	Val	Ser	Leu	Arg	Phe	Lys	Cys	Arg	Lys	
274		115					120					125					
2/6	AGC	AAG	GAG	TCT	GAA	GAT	CCC	CAG	AAA	CCT	GGG	AGT	TCA	GGG	CTG	TCT	533
277	120	гаг	GIU	Ser	GLu	Asp	Pro	GIn	Lys	Pro	Gly	Ser	Ser	Gly			
				mcc.												145	
281	Glu	Ser	Cve	TCC Ser	Thr	λla	AAT	Clar	Clu	AAA	GAC	AGC	ATC	ACC	CTT	ATC	581
282	OLU	DCI	Cys	Det	150	ALG	ASII	сту	GIU	155	ASP	ser	тте	Thr		TTE	
	TCC	ATG	AAG	AAC		AAC	ATG	ААТ	таа		ΔΔΔ	$C\Delta\Delta$	ΔСΤ	ריייר	160	GCA	629
285	Ser	Met	Lys	Asn	Ile	Asn	Met	Asn	Asn	Gl v	Lvs	Gln	Ser	Len	Ser	Δla	029
286			•	165					170	1	-,5	V-11	501	175	DCI	ALU	
288	GAG	AAG	GTT	CTT	TAA	AAGC	AACI	TT G		CCCA	T GA	GTCC	AAGG		ATGO	CAGC	684
289	Glu	Lys	Val	Leu	*								_			-	
290			180														

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	292	TGCCCTGTGA CTACAAGGAG GAAGAGATGG AATTAGTAGA GGCAATGAAC	CACATGTAAA	744
	294	TTATTTATT GTTTCATGTC TGCTTCTAGA TCTAAAGGAC ACTAGCATTG	CCCCAGATCT	804
	296	GGGAGCAAGC TACCAACAGG GGAGACTCTT TCCTGTATGG ACAGCTGCTG	TGGAAATACT	864
	298	GCCTGCTTCT CCCACCTCCT CAGAGCCACA GGAAAGAGGA GGTGACAGAG	AGAGAGCAAG	924
	300	GAAAGTGATG AGGTGGATTG ATACTTTCTA CTTTGCATTA AAATTATTTT	CTAGCCTGC	983
		(2) INFORMATION FOR SEQ ID NO: 5:	7111000100	,,,
	304			
•	305			
	306	(B) TYPE: nucleic acid		
	307	(C) STRANDEDNESS: double		
	308			
W>	310	(ii) MOLECULE TYPE: DNA (synthetic)		
	315	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:		
	317	GGAGCTCGTC GACAGATCTG AATTCCATAT GCCCGGGGCG GCCGCACTAG	TGGTAC	56
		(2) INFORMATION FOR SEQ ID NO: 6:		
	321	(i) SEQUENCE CHARACTERISTICS:		
	322	(A) LENGTH: 56 base pairs		
	323	(B) TYPE: nucleic acid		
	324	(C) STRANDEDNESS: double		
	325	(D) TOPOLOGY: linear		
W>	327	(ii) MOLECULE TYPE: DNA (synthetic)		
	332	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:		
	334	CACTAGTGCG GCCGCCCCGG GCATATGGAA TTCAGATCTG TCGACGAGCT	CCTGCA	56

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10081218.raw Output Set: N:\CRF3\03122002\J081218.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:310 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5 L:327 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6